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FIG. 1

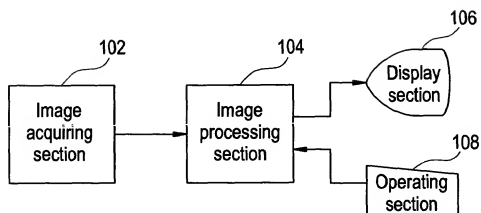


FIG. 2

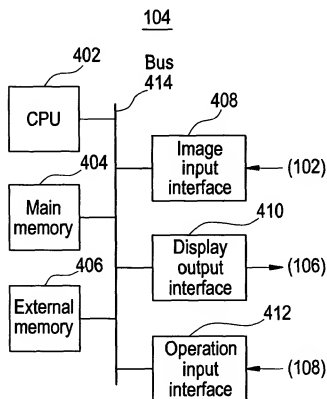


FIG. 3

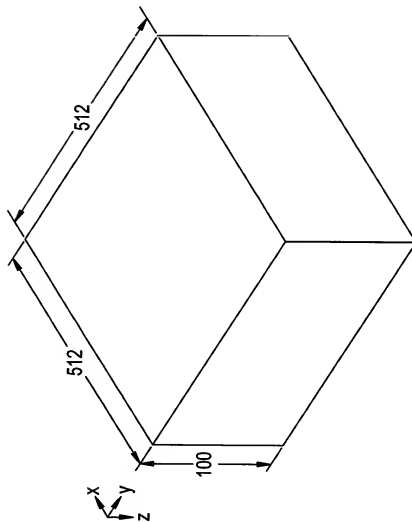


FIG. 4

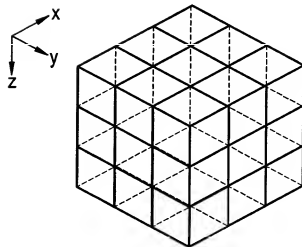


FIG. 5

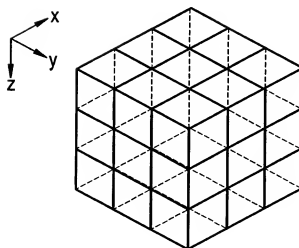
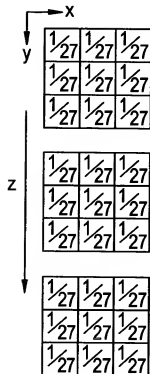
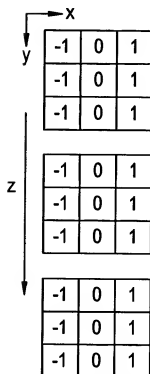


FIG. 6A



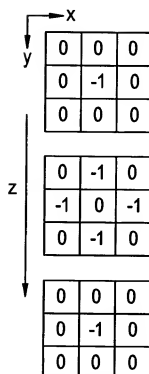
Example of smoothing filter

FIG. 6B



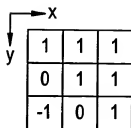
Example of 1st-order differentiation filter in x-direction

FIG. 6C



Example of 2nd-order differentiation filter

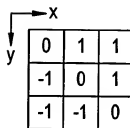
FIG. 7A



A 3x3 grid representing a spatial filter kernel. The horizontal axis is labeled 'x' with an arrow pointing right, and the vertical axis is labeled 'y' with an arrow pointing down. The grid contains the following values:

1	1	1
0	1	1
-1	0	1

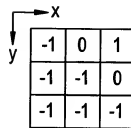
FIG. 7B



A 3x3 grid representing a spatial filter kernel. The horizontal axis is labeled 'x' with an arrow pointing right, and the vertical axis is labeled 'y' with an arrow pointing down. The grid contains the following values:

0	1	1
-1	0	1
-1	-1	0

FIG. 7C



A 3x3 grid representing a spatial filter kernel. The horizontal axis is labeled 'x' with an arrow pointing right, and the vertical axis is labeled 'y' with an arrow pointing down. The grid contains the following values:

-1	0	1
-1	-1	0
-1	-1	-1

(z - 1)

(z)

(z + 1)

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FIG. 8

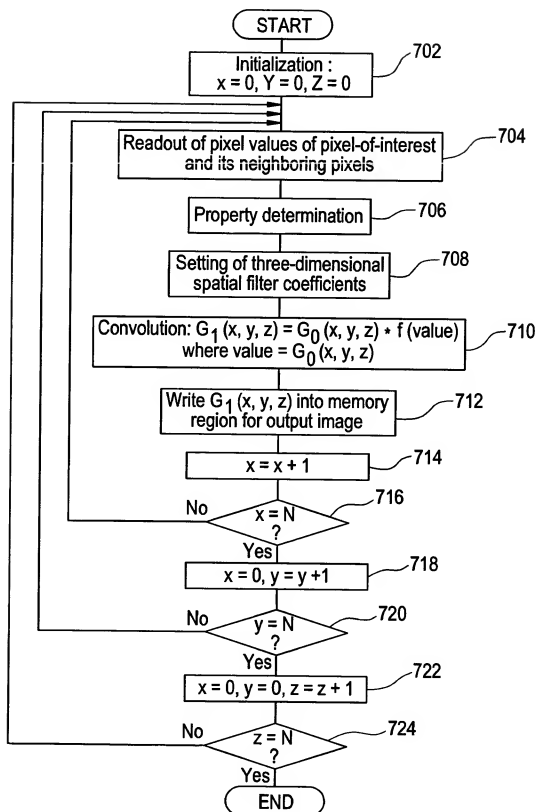


FIG. 9A

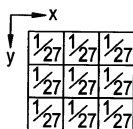


FIG. 9B

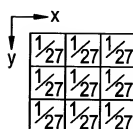
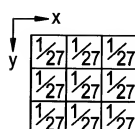


FIG. 9C

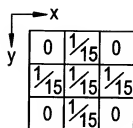


(z - 1)

(z)

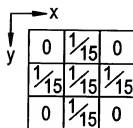
(z + 1)

FIG. 10A



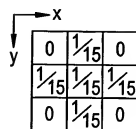
(z - 1)

FIG. 10B



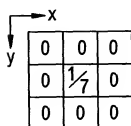
(z)

FIG. 10C



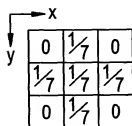
(z + 1)

FIG. 11A



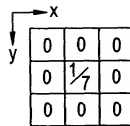
(z - 1)

FIG. 11B



(z)

FIG. 11C



(z + 1)

FIG. 12A

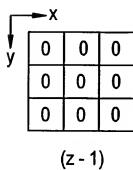


FIG. 12B

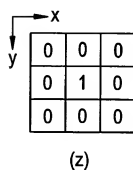


FIG. 12C

